AMENDMENTS TO THE CLAIMS

1-6. (Canceled)

7. (Original) In a computer system including a display, a user input facility, and an

application for presenting user interfaces on the display, one or more page functions being stored

on a computer-readable medium as a data type, each page function comprising:

a set of exposed attributes accessible externally to the page function, wherein a first

subset of the set of exposed attributes define types of information receivable by the page

function, and a second subset of the set of exposed attributes define types of information

returnable by the page function, and wherein the exposed attributes that define types of

information returnable by the page function are strongly typed;

a set of page function services including an activate service and a complete service, both

services being invocable to execute a decision selected from a group consisting of a decision to

finish, a decision to show user interface elements, and a decision to create a new page function;

and

user interface elements operable to be displayed on the display.

8. (Original) The page function of Claim 7, wherein the activate service has a set of

parameters, each corresponding to one of the first subset of exposed attributes.

9. (Original) The page function of Claim 7, wherein the complete service has a set

of parameters, a portion of the set of parameters identifying another page function created by the

page function to perform a second task, another portion of the set of parameters corresponding to

one of the second subset of exposed attributes.

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10. (Original) The page function of Claim 7, further comprising an identifier for

identifying each instance of the page function.

11. (Original) The page function of Claim 7, wherein the user interface elements may

be selectively displayed on the display.

12. (Original) In a computer system including a display, a user input facility, and an

application for presenting user interfaces on the display, one or more page functions being stored

on a computer-readable medium as a data type, a programming system having a computer-

readable medium that has stored thereon an architectural software framework, the architectural

software framework comprising:

a first data type defined as a page function, the page function comprising:

a set of exposed attributes accessible externally to the page function, wherein a

first subset of the set of exposed attributes define types of information receivable by the page

function, and a second subset of the set of exposed attributes define types of information

returnable by the page function, and wherein the set of exposed attributes are strongly typed;

a set of page function services, wherein the set of page function services including

an activate service and a complete service, both services being invocable to execute a decision

selected from a group consisting of a decision to finish, a decision to show a user interface page,

and a decision to create a new page function; and

user interface elements to be selectively displayed on the display; and

a second data type defined as a frame, the frame comprising

a set of frame services, wherein the set of frame services includes a navigate

service and a finish service, the navigate service being invocable by a first page function to

navigate to a second page function to perform a task, and the finish service being invocable by

the second page function to communicate to the frame that the task has been performed; and

LAW OFFICES OF CHRISTENSEN O'CONNOR JOHNSON KINDNESSPLIC 1420 Fifth Avenue a frame data structure, wherein the frame data structure stores information that

identifies each page function to which the frame has navigated, and shows the originator

relationship among page functions.

13. (Original) A computing environment for displaying user interface elements on an

output device in a Web-style manner, the computing environment comprising:

an output device;

an input device; and

a program interface module exposing an interface function that, when invoked:

creates a page function comprising:

a set of exposed attributes, wherein a first subset of the set of exposed

attributes defining types of information receivable by the page function, and a second subset of

the set of exposed attributes defining types of information returnable by the page function, the

exposed attributes defining types of information returnable by the page function being strongly

typed;

a set of page function services, wherein the set of page function services

including an activate service and a complete service, both services being invocable to execute a

decision selected from a group consisting of a decision to finish, a decision to display a user

interface page, and a decision to create a new page function; and

user interface elements that may be selectively displayed on the output

device; and

selectively displays the user interface elements of the page function on the

output device.

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14. (Original) The computing environment of Claim 13 wherein the exposed

interface function is explicitly defined according to a specific type of information returnable by

the page function.

15. (Original) The computing environment of Claim 14 wherein the specific type of

information returnable by the page function is an integer.

16. (Original) The computing environment of Claim 14 wherein the specific type of

information returnable by the page function is a character string.

17. (Original) The computing environment of Claim 14 wherein the specific type of

information returnable by the page function is a Boolean value.

18. (Original) The computing environment of Claim 13 wherein the exposed

interface function requires a parameter for identifying the specific type of information returnable

by the page function.

19. (Original) The computing environment of Claim 18 wherein the exposed

interface function is a template-style interface function.

20. (Original) The computing environment of Claim 18 wherein the required

parameter for identifying the specific type of information returnable by the page function is an

integer identifier, and wherein the specific type of information returnable by the page function is

an integer.

21. (Original) The computing environment of Claim 18 wherein the required

parameter for identifying the specific type of information returnable by the page function is an

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character string identifier, and wherein the specific type of information returnable by the page

function is an character string.

22. (Original) The computing environment of Claim 18 wherein the required

parameter for identifying the specific type of information returnable by the page function is an

Boolean identifier, and wherein the specific type of information returnable by the page function

is Boolean value.

23. (Original) The computing environment of Claim 13, wherein the first subset of

the set of exposed attributes defining types of information receivable by the page function

includes an add return delegate function which, when invoked with a parameter identifying a

return delegate routine, enables the page function to return its information.

24. (Original) A computer-readable medium having computer-executable

instructions which, when executed on a computer system implement an application programming

interface module exposing a programming interface, such that when the programming interface

is invoked:

creates a page function comprising:

a set of exposed attributes, wherein a first subset of the set of exposed attributes

defining types of information receivable by the page function, and a second subset of the set of

exposed attributes defining types of information returnable by the page function, the exposed

attributes defining types of information returnable by the page function being strongly typed;

a set of page function services, wherein the set of page function services including

an activate service and a complete service, both services being invocable to execute a decision

selected from a group consisting of a decision to finish, a decision to display a user interface

page, and a decision to create a new page function; and

LAW OFFICES OF CHRISTENSEN O'CONNOR JOHNSON KINDNESSPLIC 1420 Fifth Avenue Suite 2800

Seattle, Washington 98101 206.682.8100 user interface elements that may be selectively displayed on the output device;

and

selectively displays the user interface elements of the page function on the output

device.

25. (Original) The programming interface module of Claim 24, wherein the

programming interface is explicitly defined according to a specific type of information returnable

by the page function.

26. (Original) The programming interface module of Claim 25, wherein the specific

type of information returnable by the page function is an integer.

27. (Original) The programming interface module of Claim 25, wherein the specific

type of information returnable by the page function is a character string.

28. (Original) The programming interface module of Claim 25, wherein the specific

type of information returnable by the page function is a Boolean value.

29. (Original) The programming interface module of Claim 24, wherein the

programming interface requires a parameter for identifying the specific type of information

returnable by the page function.

30. (Original) The programming interface module of Claim 29, wherein the exposed

interface function is a template-style interface function.

31. (Original) The programming interface module of Claim 29, wherein the required

parameter for identifying the specific type of information returnable by the page function is an

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integer identifier, and wherein the specific type of information returnable by the page function is an integer.

32. (Original) The programming interface module of Claim 29, wherein the required

parameter for identifying the specific type of information returnable by the page function is a

character string identifier, and wherein the specific type of information returnable by the page

function is a character string.

33. (Original) The programming interface module of Claim 29, wherein the required

parameter for identifying the specific type of information returnable by the page function is an

Boolean identifier, and wherein the specific type of information returnable by the page function

is Boolean value.

34. (Original) The programming interface module of Claim 24, wherein the first

subset of the set of exposed attributes defining types of information receivable by the page

function includes an add return delegate function which, when invoked with a parameter

identifying a return delegate routine, enables the page function to return its information.

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